Tides, Water Level and Currents Working Group

VTC, 4-6 *November* 2025

Draft Agenda – (TWCWG10)

1. Opening

- .1 Opening address Chair / Vice Chair
- .2 IHO comments IHO

2. Administrative Arrangements

- .1 Adoption of the Agenda and Apologies Chair/IHO
- .2 Programme and timetable of the Sessions Chair/IHO
- .3 Report on Intercessional Activities including HSSC17 Chair
- .4 Matters arising from TWCWG8/Review of Action Items Chair

3. Programme Matters

- .1 Standard Constituent List GBR/Chair
- .2 The study of long-term data sets for the determination of global sea level rise and changes in tidal range. NOR/USA
- .3 Compare Tidal Predictions generated as a result of analysis of a common data set by different analysis software (including Application for an International Association for the Physical Sciences of the Oceans (IAPSO) Best Practice Study group on Tidal Analysis)—USA/NOR/GBR [UK National Oceanography Centre, NOC]
- .4 Historical data recovery/data archaeology Chair / GBR [UK National Oceanography Centre (NOC)] / All
- .5 Establishment and Maintenance of VRF for High Resolution Bathymetric Surfaces GBR/NLD
- .6 Determining ellipsoidal height of MSL at the coast NLD
- .7 Inventory of Tide gauges used by IHO Member States IHO/Chair
- .8 Actual Tides On-line Link status IHO/Chair
- .9 List of vertical datums in use to describe Chart Datum –IHO/Chair

4. Product Specification Presentations & Updates (S-104 & S-111)

- .1 Water Level Information for Surface Navigation Product Specification (S-104); Ed 2.0.0 AUS/USA
- 2 S-104 & S-111 Papers: presentation and discussions:-
 - .1 S-104 and S-111 CRS-issues FI.pdf
 - .2 Proposal-S-104_Chapter5.1_redline.pdf
 - .3 Proposal-S-104 Chapter 5.1 clean.pdf
- .3 Surface Currents Product Specification (S-111); Ed 2.0.0 USA
- .4 S-104 Validation and S-158:104; updates USA
- .5 S-111 Validation and S-158:111; updates USA
- .6 The TWCWG GitHub repository; S-104 Spreadsheet NO
- .7 Next editions of S-104 and S-111 (When? Changes beyond Ed 2.0.0) USA/All
- .8 S-104 & S-111 Member State developments, Use cases, etc. All
- .9 Engagement with S-100WG and other relevant subordinate bodies USA/Chair
- .10 Survey on tides, water level and currents; data production method and data format (S-104 & S-111 products) KHOA

5. Product Specification Presentations & Updates (S-44)

.1 Offer by the Hydrographic Surveys WG (HSWG) for TWCWG collaboration to improve tidal observation uncertainty standards within the relevant sections of S-44 (Standards for Hydrographic Surveys) – BRA / Chair / All

6. IHO Resolutions and Charting Specifications

- .1 Review of relevant IHO Resolutions ZAF
- .2 IHO Resolutions Chart Datum definition in non-tidal areas (and tidal areas) BRA
- .3 Review of relevant IHO Charting Specifications IHO

7. IOC Programmes

- .1 Update on IOC Global Sea Level Observing System (GLOSS) Programme items and events ES (GLOSS Chair, Begoña Pérez Gómez)
- .2 Update on IOC Tsunamis & Other Hazards Related to Sea-Level Warning & Mitigation Systems (TOWS) Programme items and events CHL

8. Capacity Building

.1 Tides and Water Levels Workshop training material – ZAF/AUS/USA

9. Any Other Business

.1 Minimum metadata requirements for tide & water level gauges - GBR [UK National Oceanography Centre (NOC)]

10. Work Plan and ToRs

- .1 TWCWG Work Plan 2025-2026 updates IHO
- .2 Review TWCWG ToRs and RoPs IHO
- 11. Venue and dates of the 11th TWCWG Meeting (TWCWG10) –IHO/ Chair
- 12. Review of Action Items from TWCWG10 IHO
- 13. Development of TWCWG10 report to HSSC18 Chair
- 14. Draft Agenda for TWCWG11 -IHO/ Chair
- 15. Closing remarks Chair/Vice Chair/IHO/All